

FIG. 1A  
 (PRIOR ART)

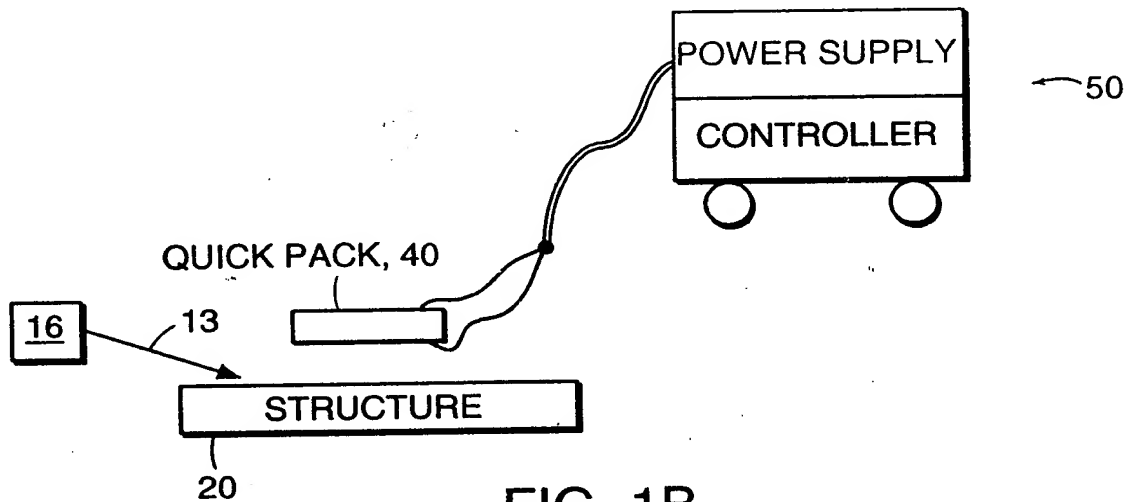


FIG. 1B

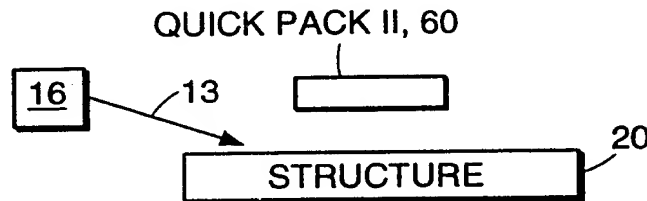
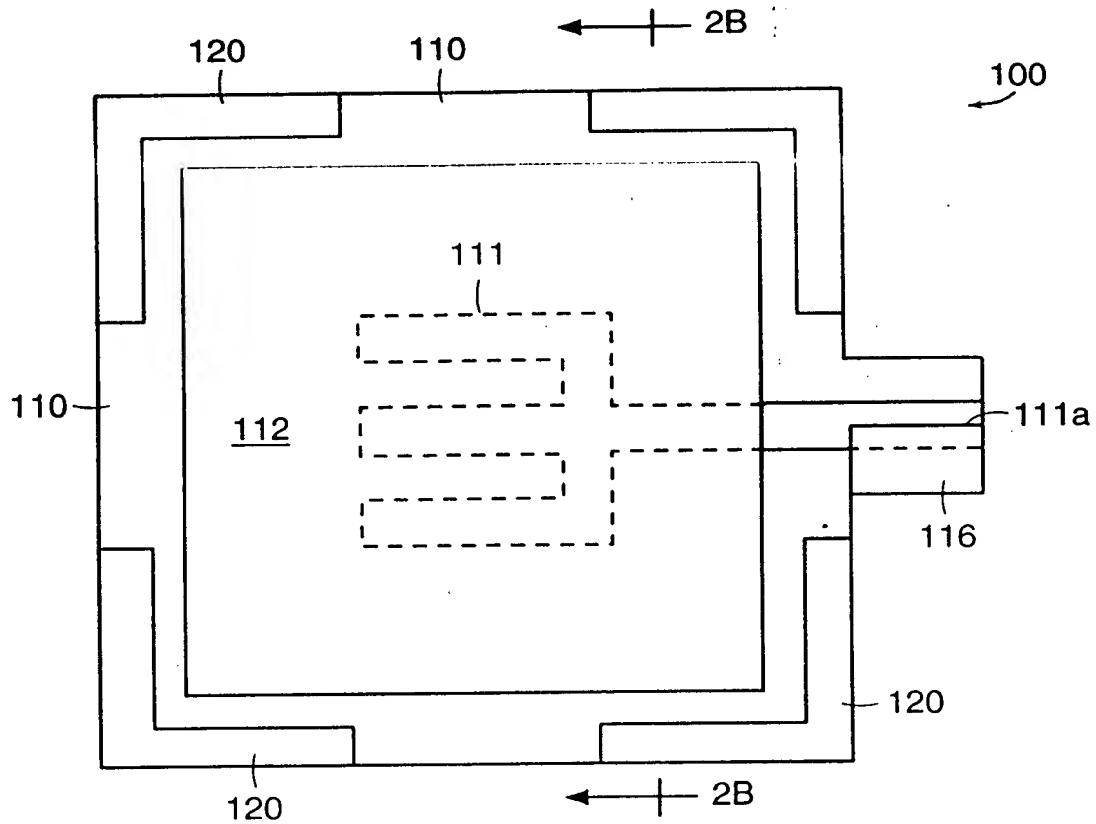
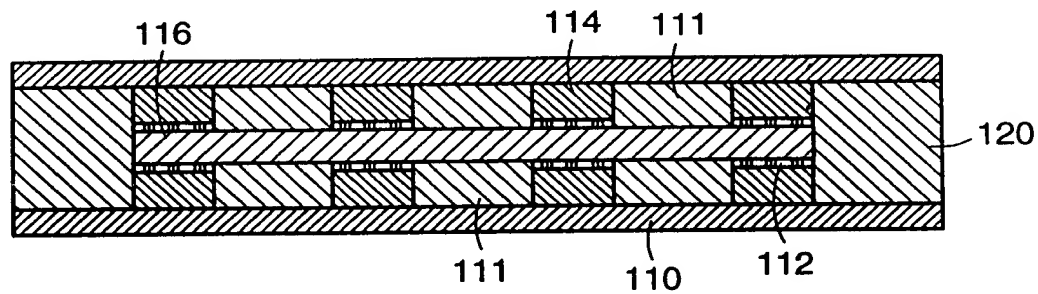


FIG. 1C



**FIG. 2A**



**FIG. 2B**

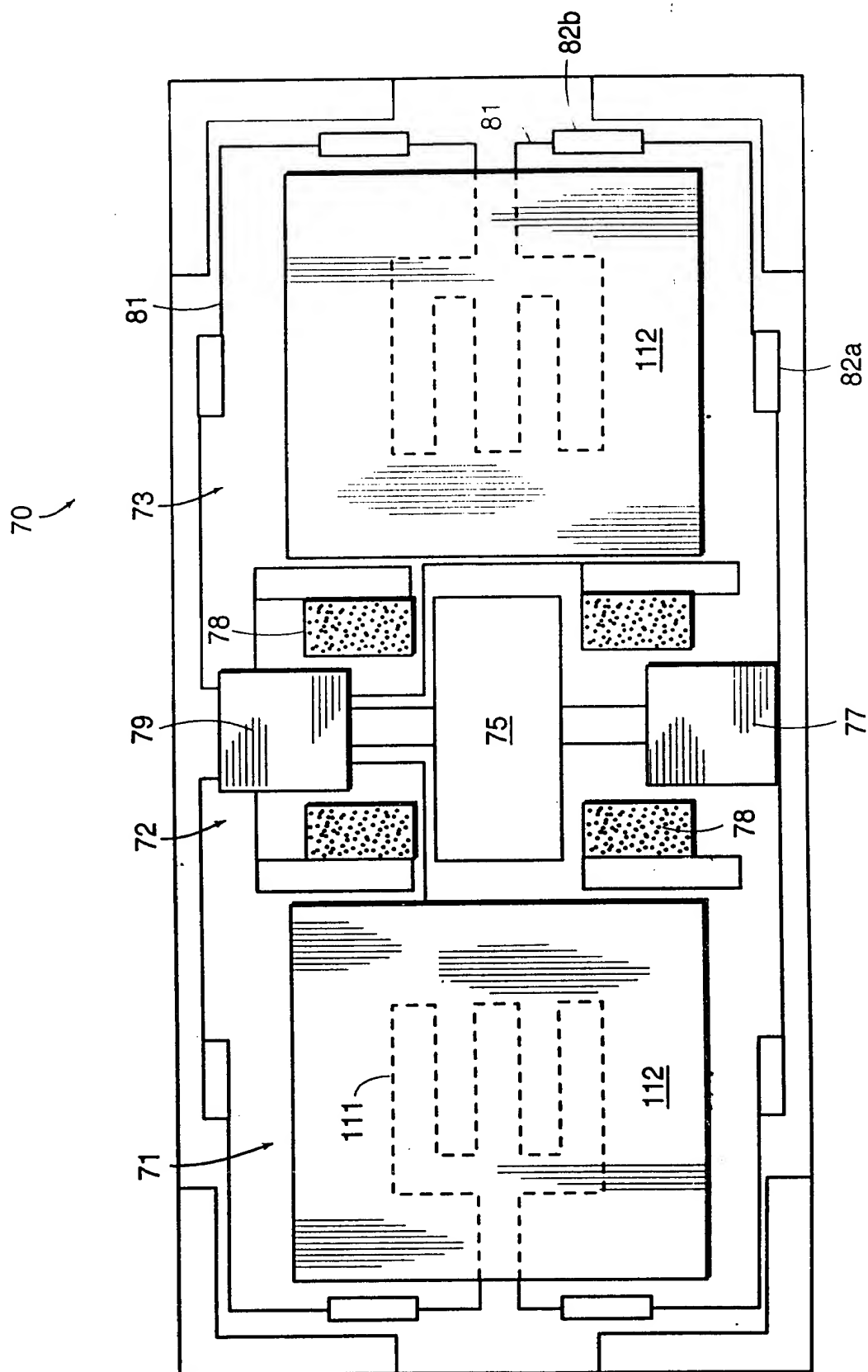


FIG. 2C

FIG. 2C



FIG. 4A

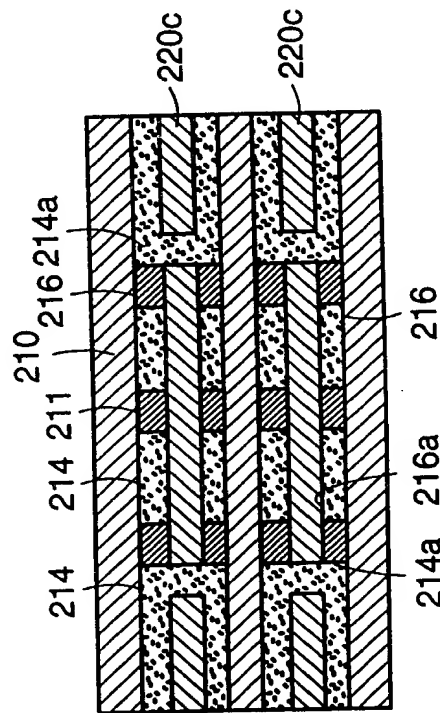


FIG. 4A

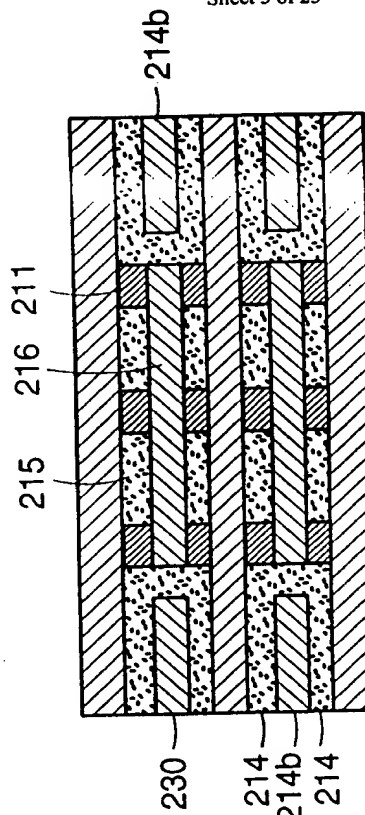


FIG. 4B

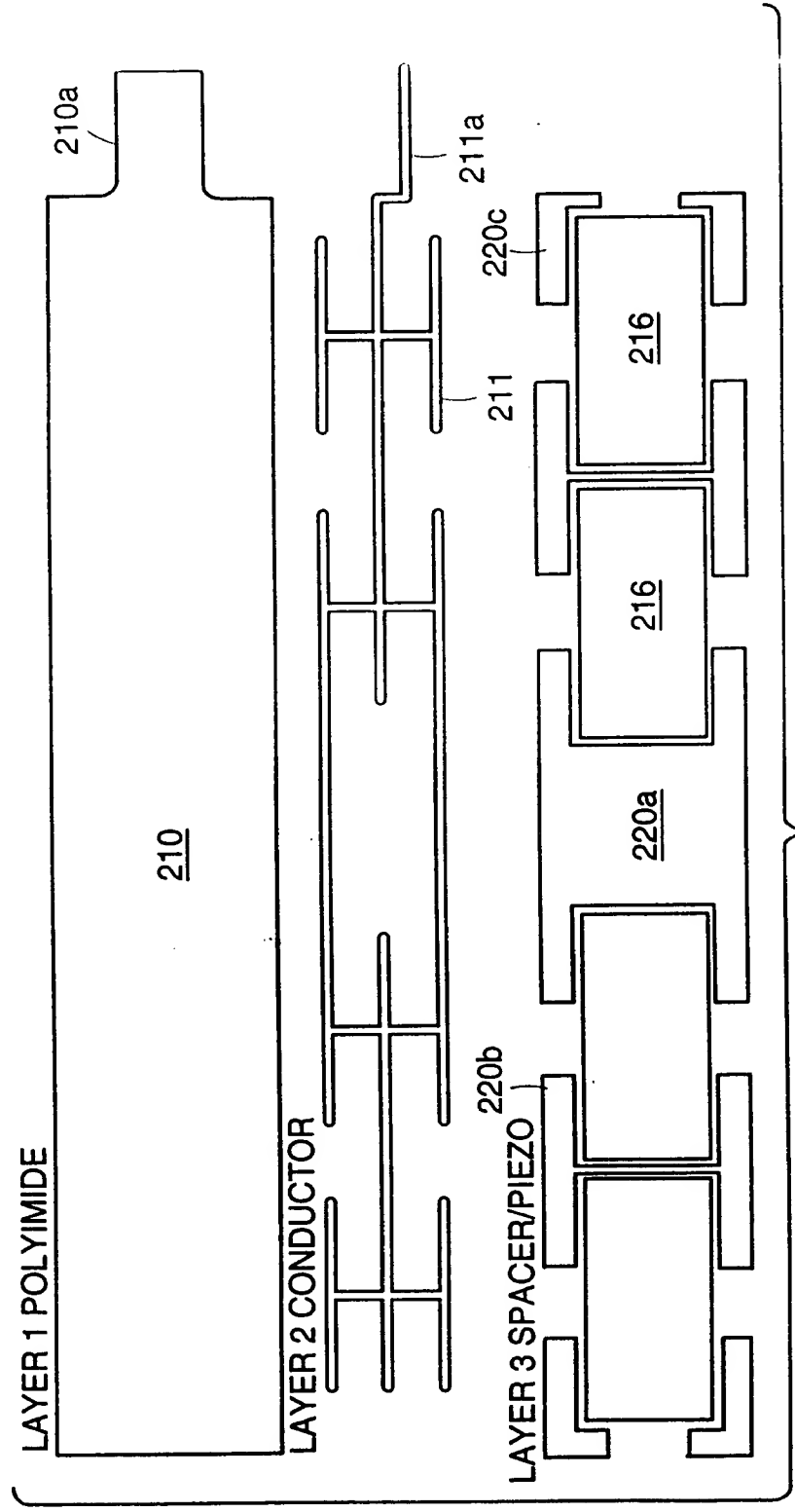


FIG. 5

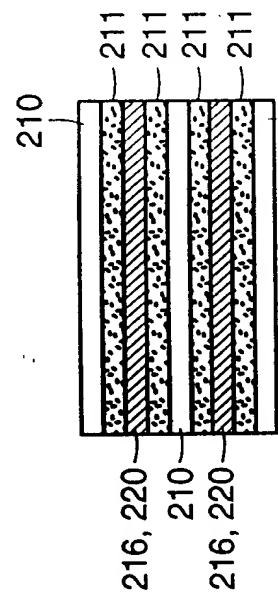


FIG. 5A

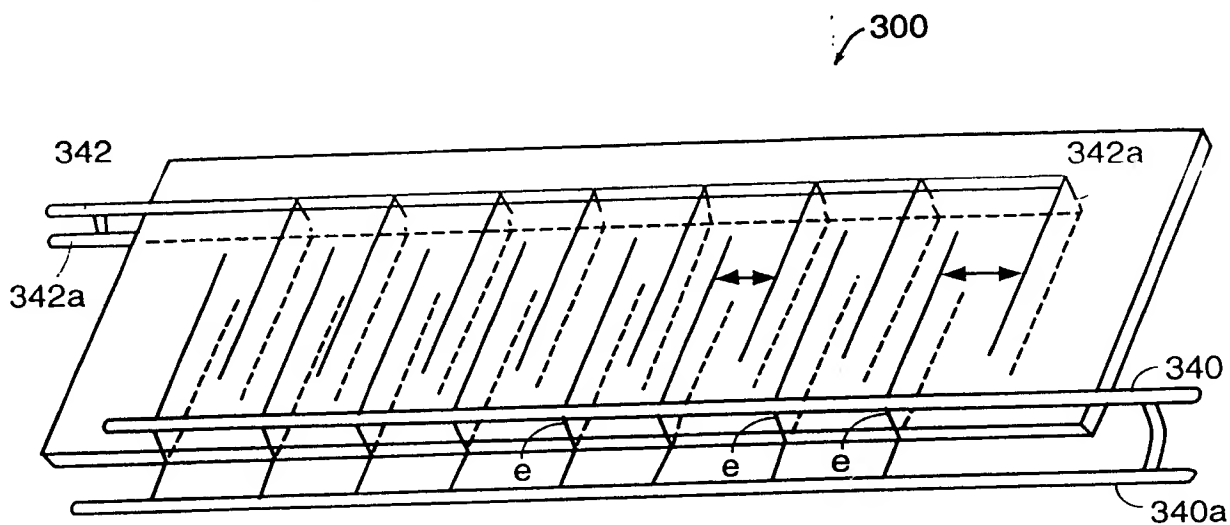


FIG. 6

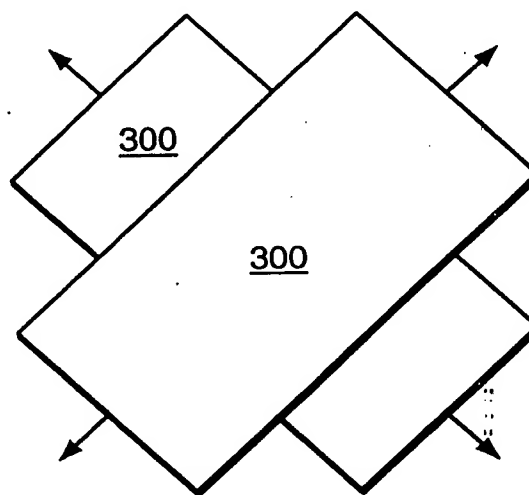


FIG. 7

406060 00000000

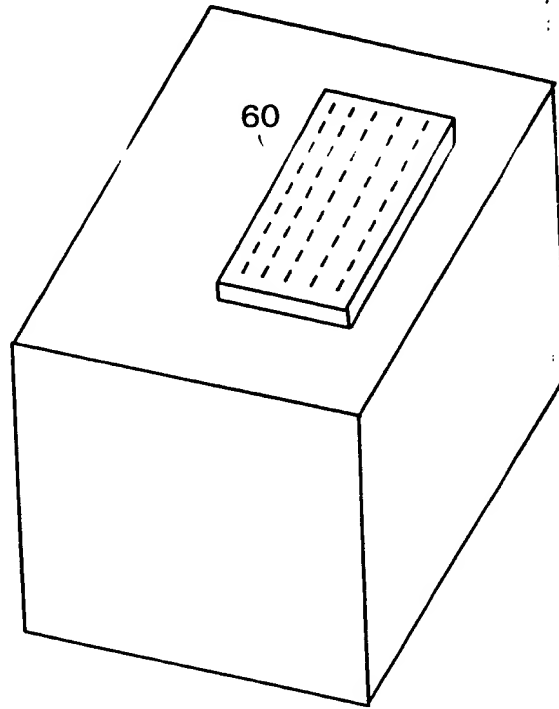


FIG. 8A

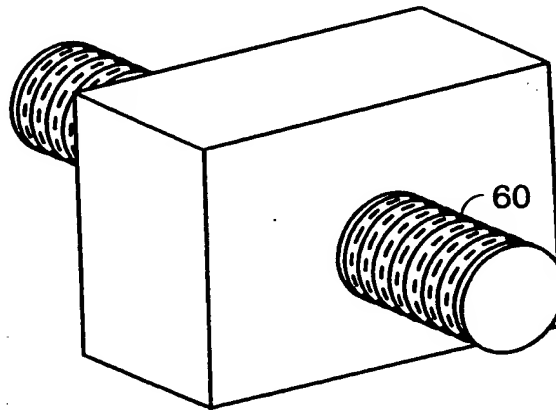
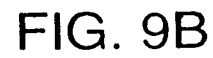


FIG. 8B





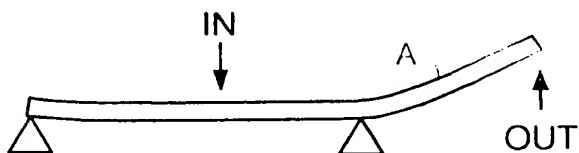


FIG. 9I

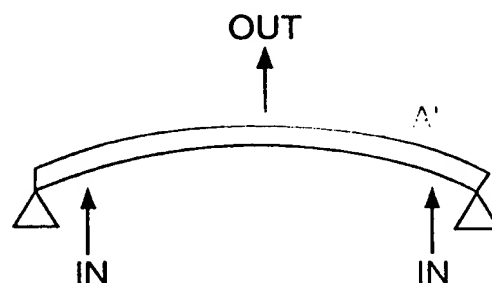


FIG. 9J

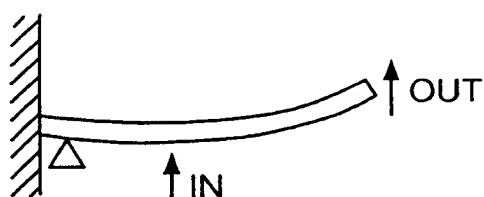


FIG. 9K

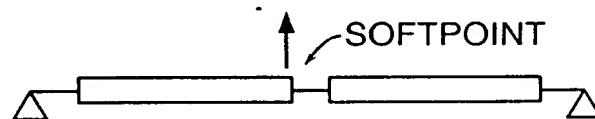


FIG. 9L

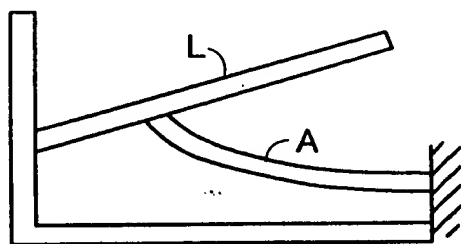


FIG. 9M

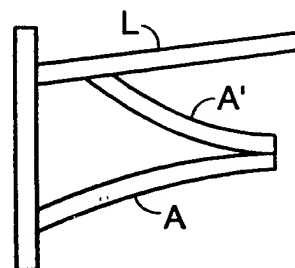


FIG. 9N

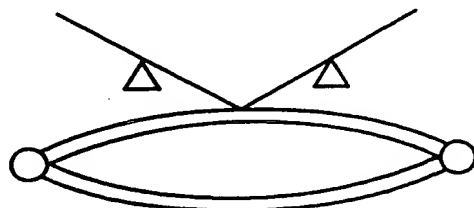


FIG. 9O

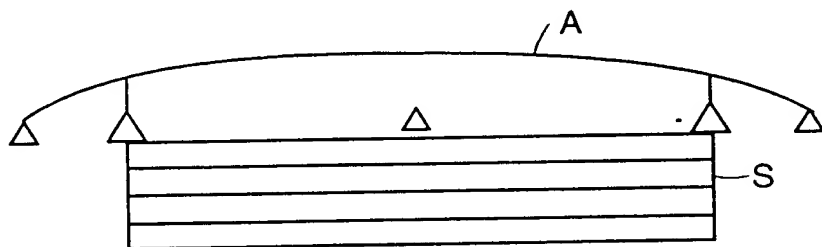


FIG. 9P

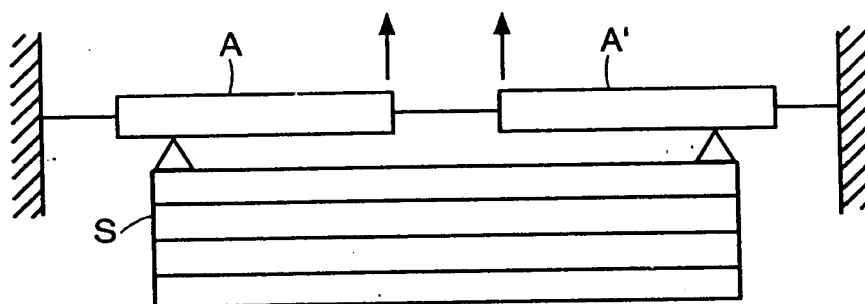


FIG. 9Q

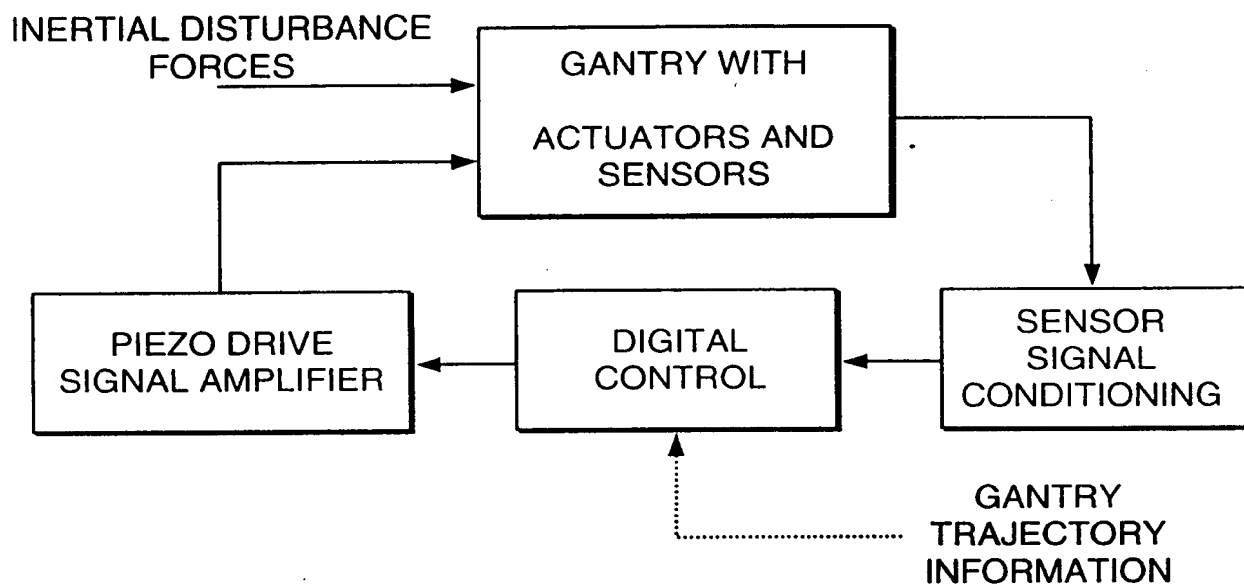


FIG. 10

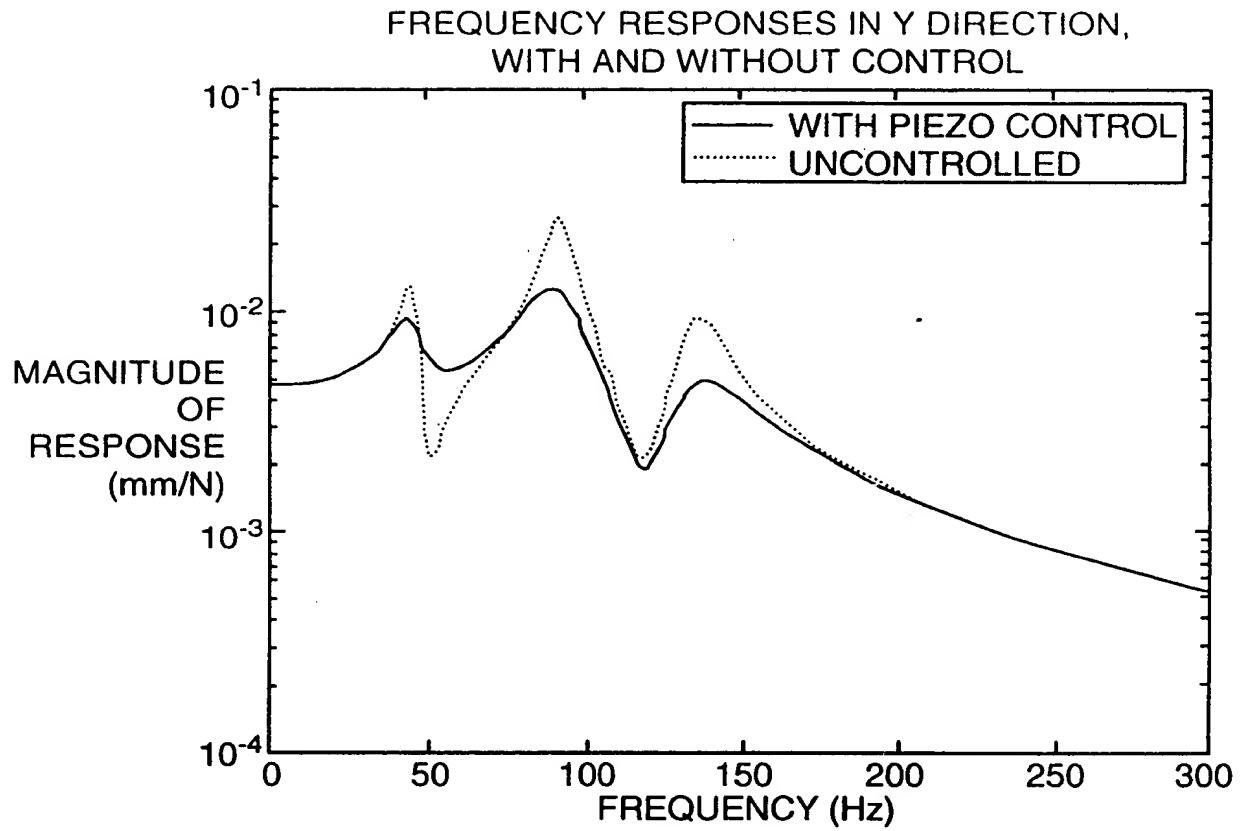


FIG. 11

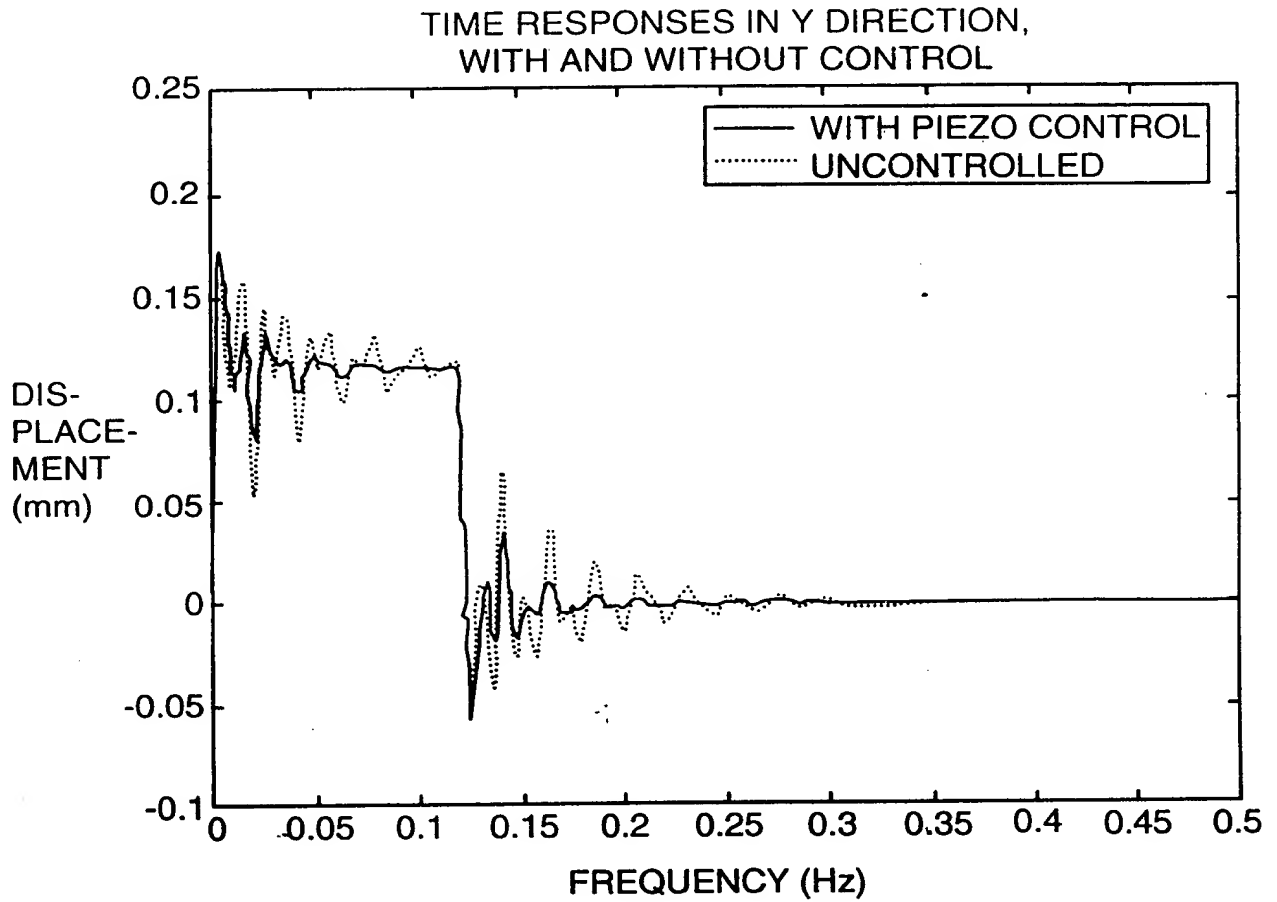


FIG. 12

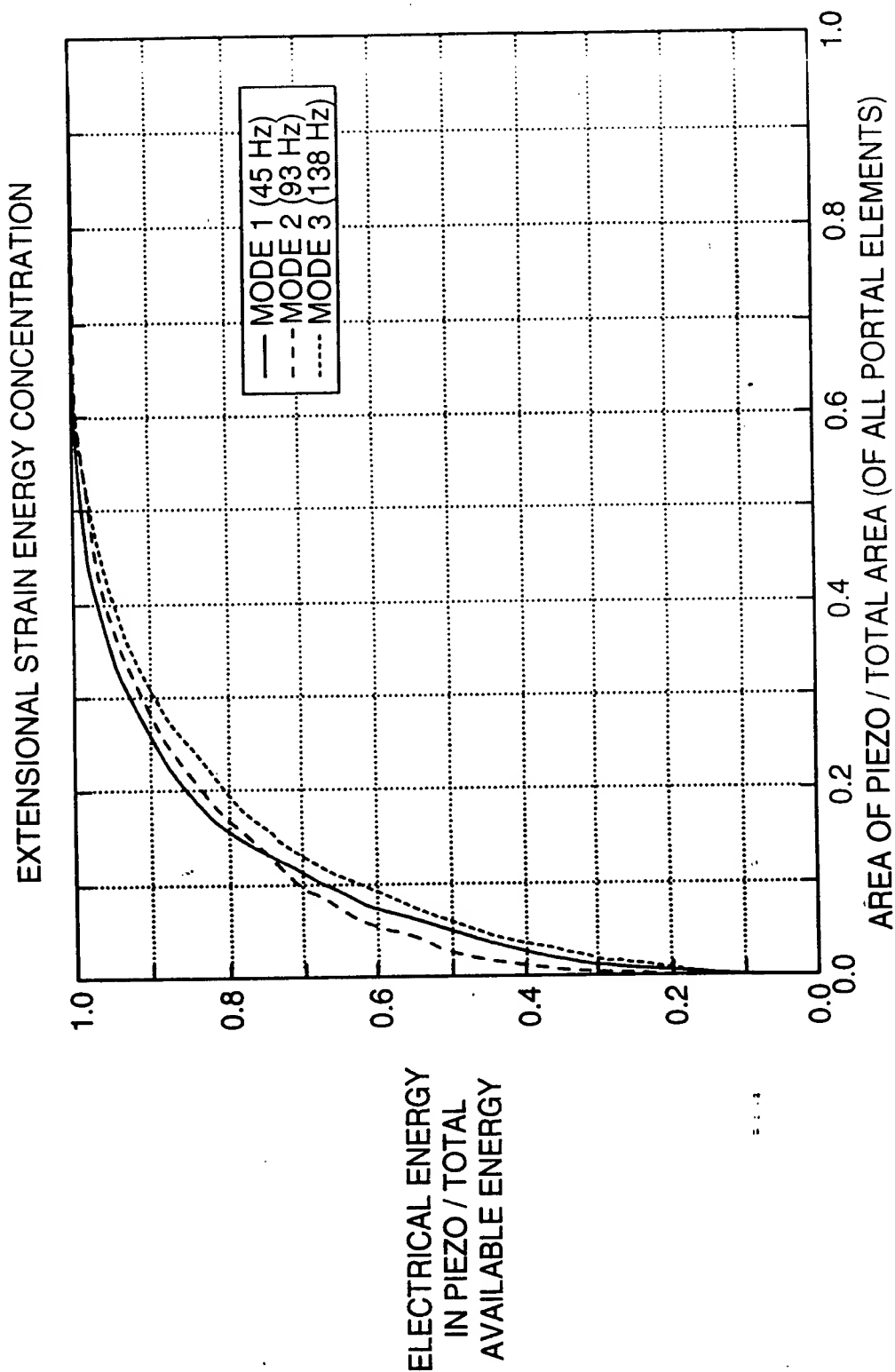


FIG. 13

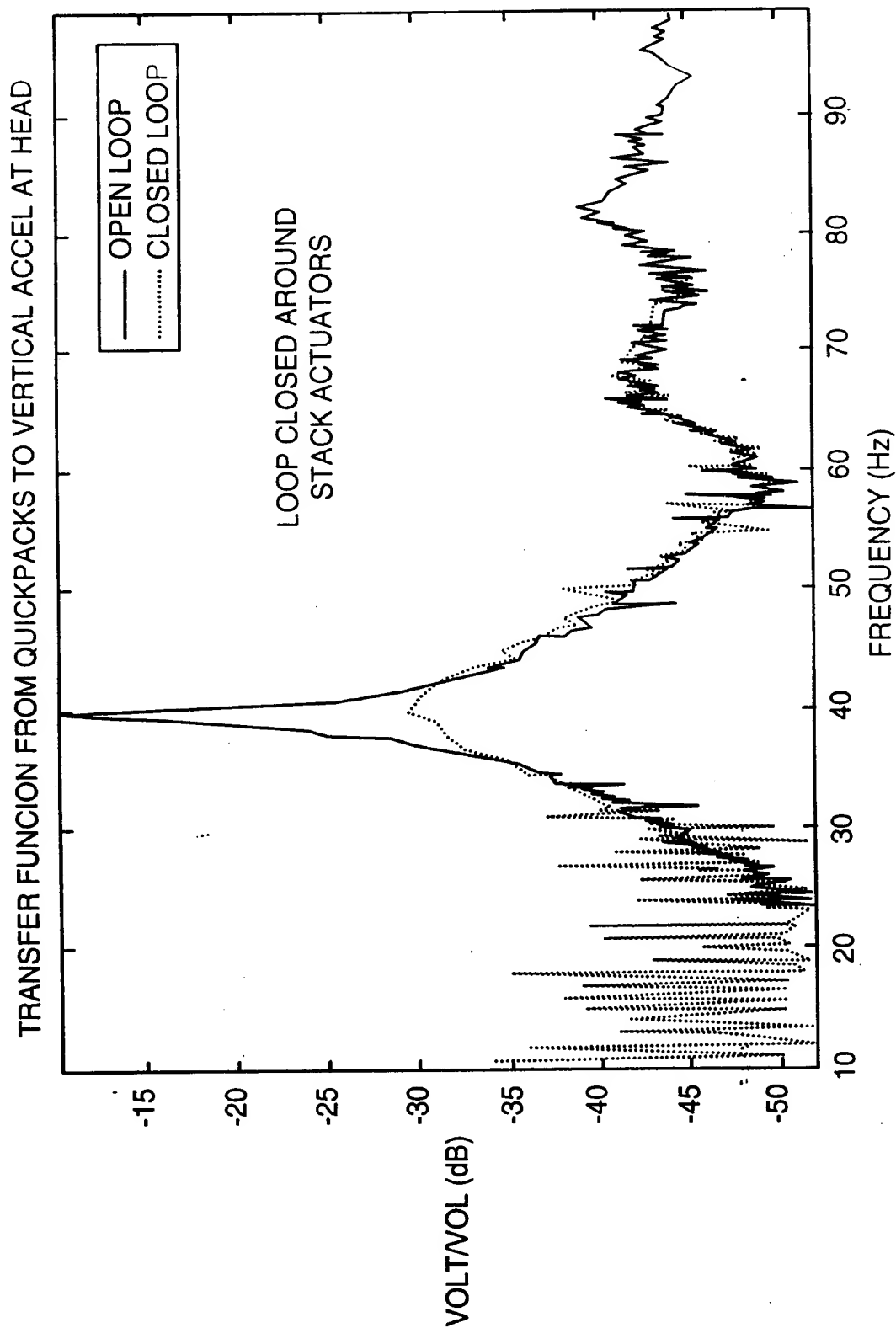


FIG. 14



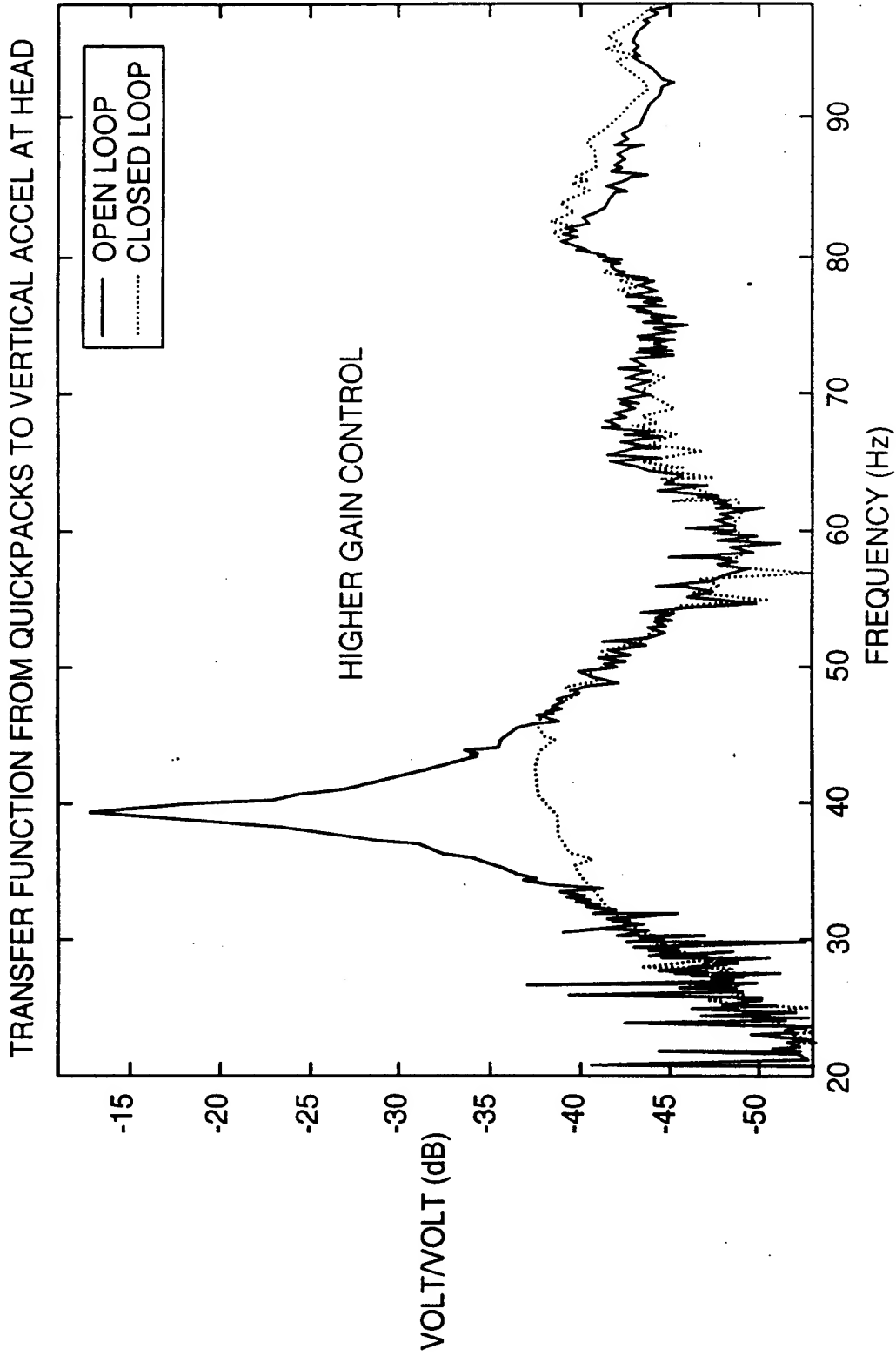


FIG. 15

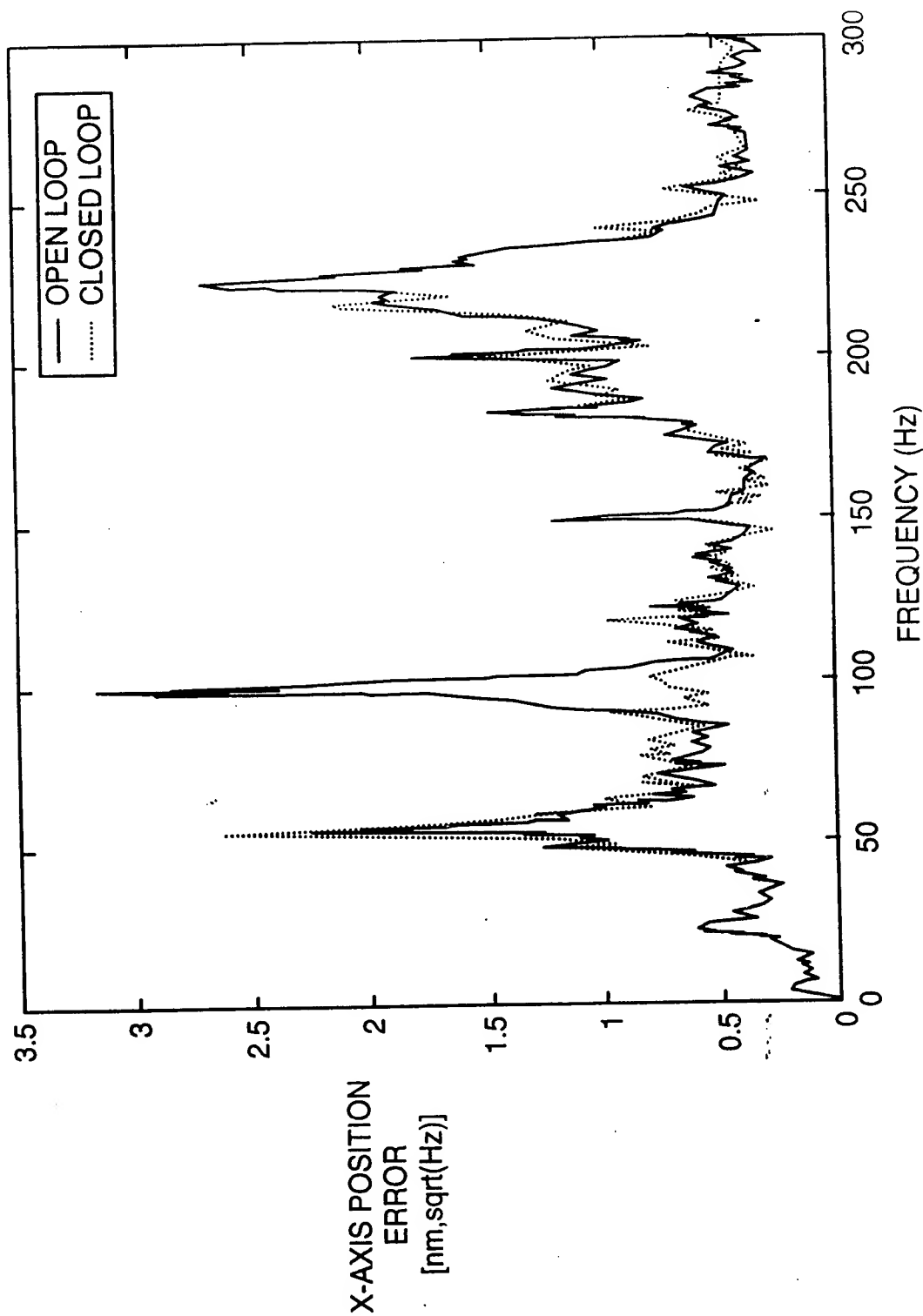


FIG. 16

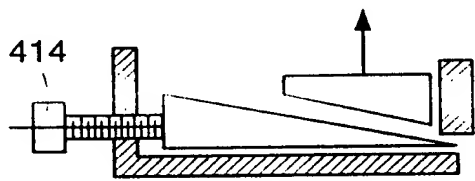


FIG. 17

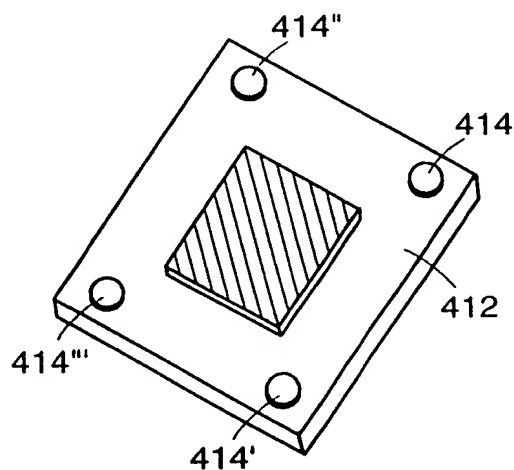


FIG. 18

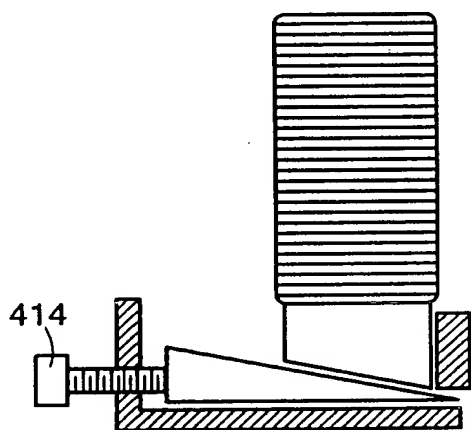


FIG. 19



FIG. 20

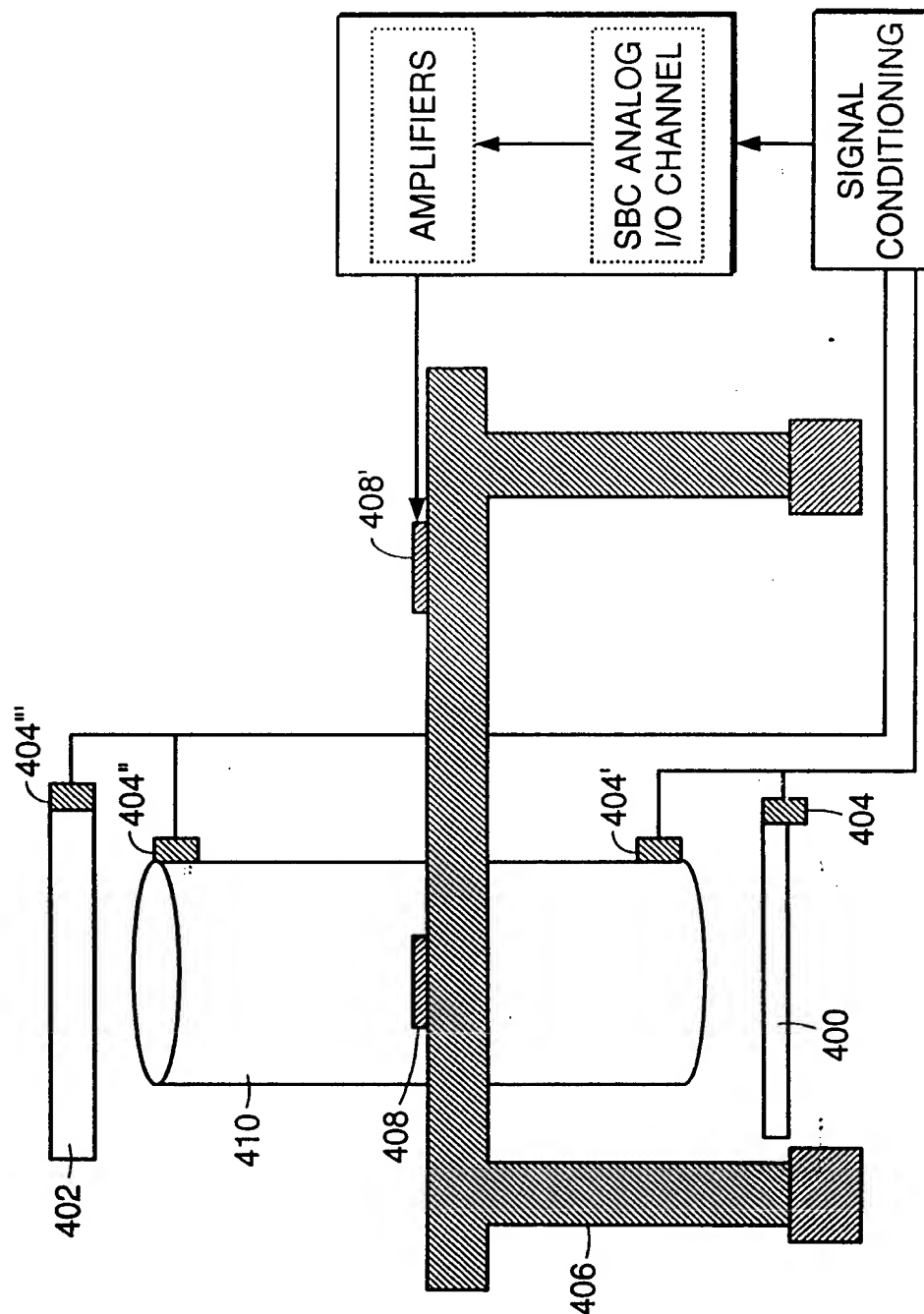
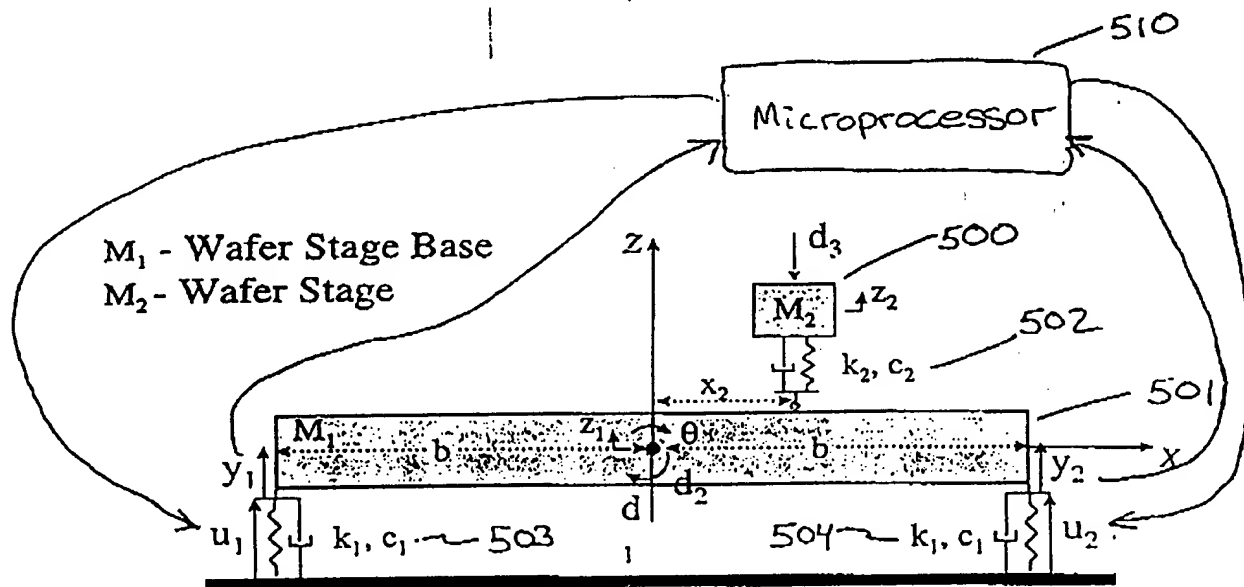


FIG. 21

FIG. 21



- Inputs ( $u_i$ ): Voice Coil forces on base in Z
- Outputs ( $y_i$ ): Laser displacement measurements collocated with voice coil inputs
- Disturbances ( $d_i$ ): Z-force and  $\theta$  moment on base, Z force on stage

FIG. 22

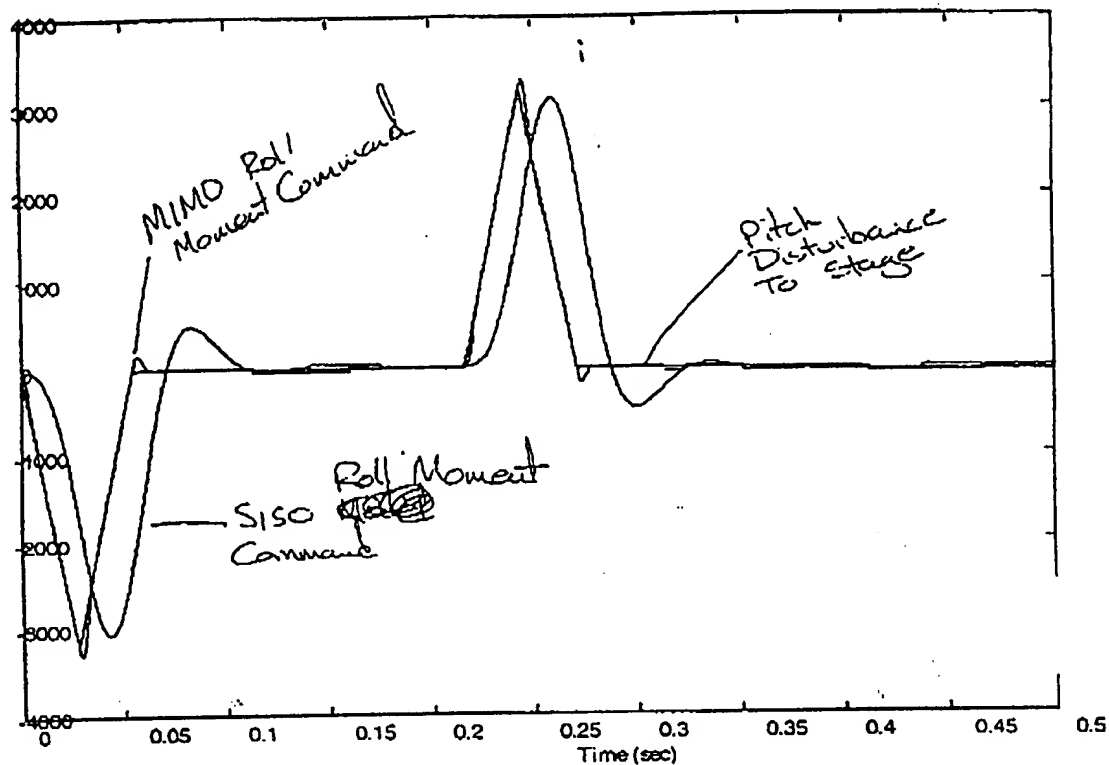


FIG. 23

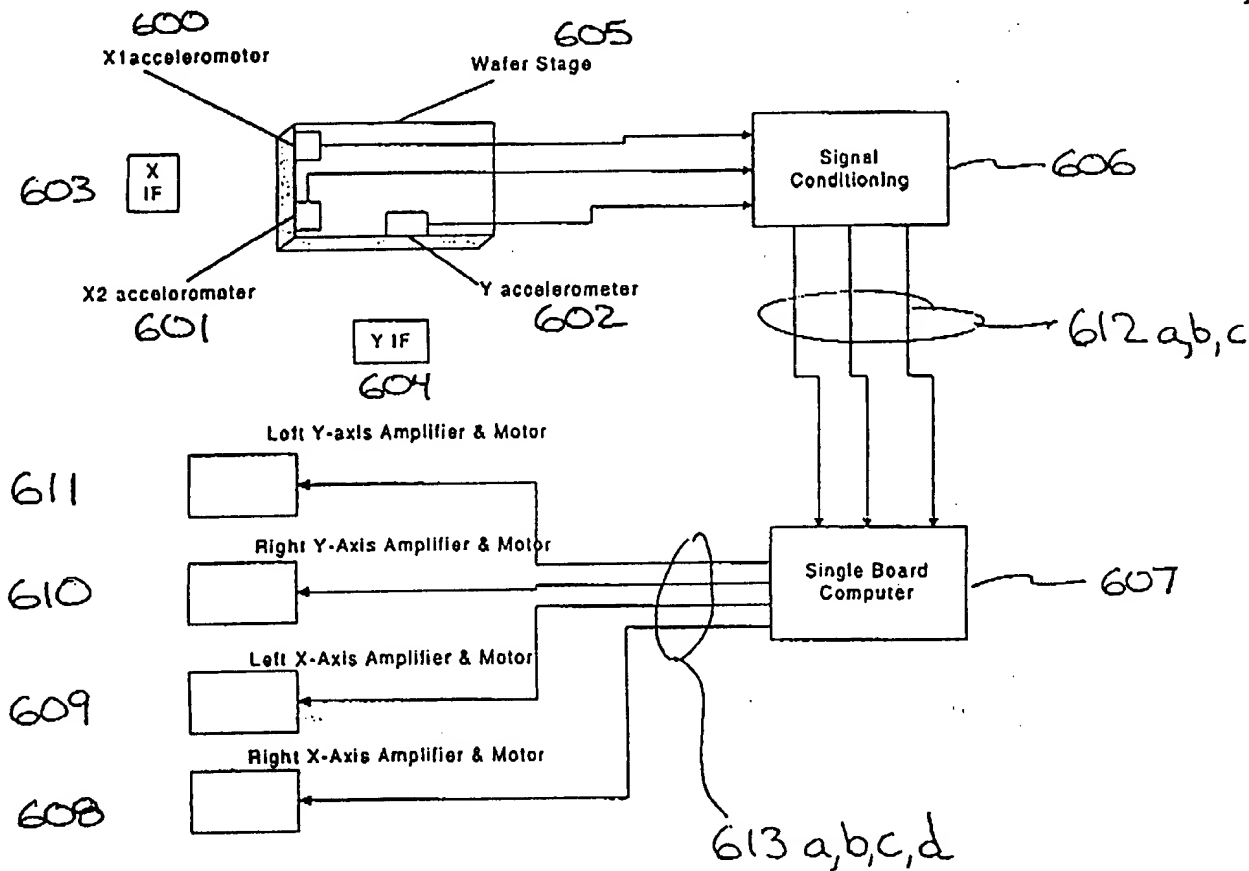


FIG. 24

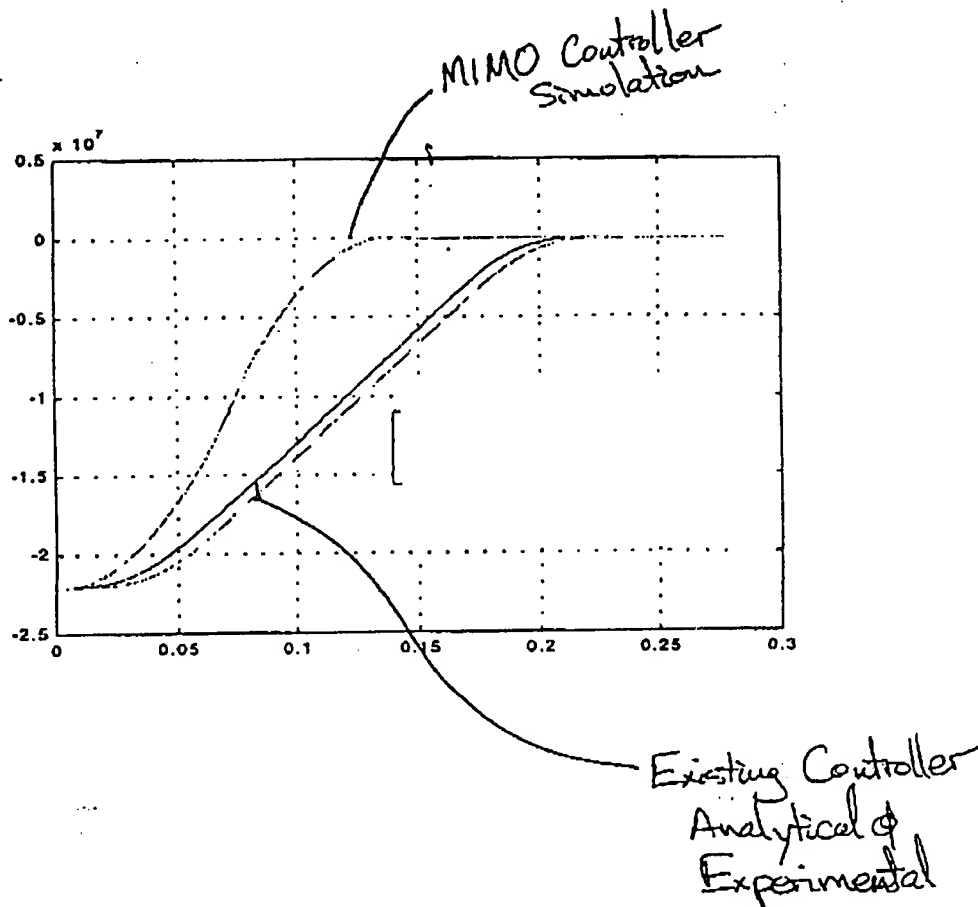


FIG. 25



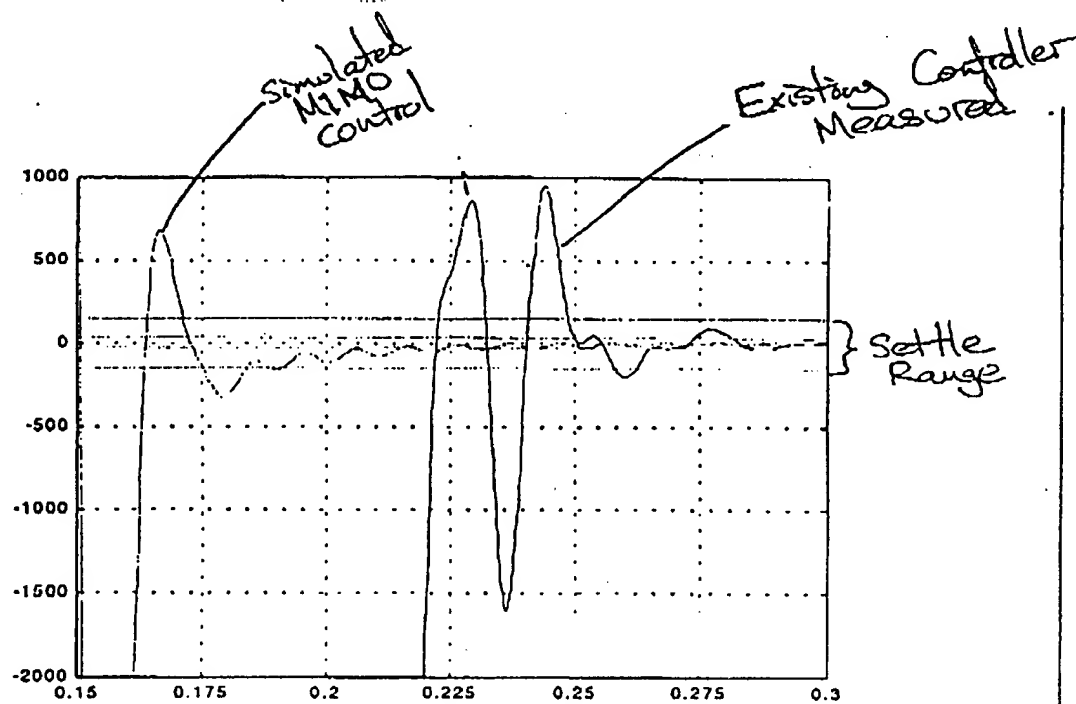


FIG. 26